

AVCO CORPORATION, LYCOMING DIVISION

MODELS: Avco Lycoming Military O-435-2-M1

T.C. NUMBER: 5E-12

Model	O-435-2-M1
Type	6HOA
Reduction gear ratio	-642: 1
Rating:	
Maximum continuous, hp, rpm, in. Hg., S.I. press. alt.	185-2800-24.8-S.L.
Take-off, hp, rpm, at full throttle	235-3200
Fuel (minimum octane aviation gasoline)	91/98
Bore and stroke, in.	4.875 x 3.875
Displacement, cu. in.	434
Compression ratio	7.5: 1
Weight (dry), lbs.	405
C.G. location (dry)	
Forward of rear mounting face, in.	12.9
Below propeller shaft C.L., in.	0.7
Propeller shaft, SAE No.	20
Carburetion	Bendix PS-5C carburetor with 380123-1 setting
Ignition, dual	Scintilla SF6LN-8 magneto
Ignition timing, deg. BTC	25
Spark plugs	BG-RB-485S
Oil sump capacity, quarts	12

NOTE 1. Maximum permissible cylinder head, barrel, and oil inlet temperature, 525 degrees F., and 220 degrees F., respectively.

NOTE 2. Fuel pressure limits (psi) 9.0-15.0, oil pressure limits (psi) 60-80.

NOTE 3. The following accessory drives are provided:

<u>Drive</u>	<u>Drive Ratio</u>
Generator	1.25: 1
Starter	1: 1
Fuel Pump	1: 1
Vacuum or hydraulic pump	1.33: 1

NOTE 4. Military O-435-2 engines bearing only serial numbers L00849-11 through L-1117-11, have six damper crankshafts and are eligible for this modification. Other O-435-2 engines have four damper crankshafts and consequently are not eligible for this modification or approval.

NOTE 5. When the modifications to Associated Aircraft Modification Company's Drawing No. 30350C is completed on eligible O-435-2 engines, (1) the designation "M1" is to be stamped after the model designation on the nameplate to read "O-435-2-M1" and (2) "CAA Specifications No. 5E-12" is to be stamped on the nameplate or on another plate permanently attached to the engine.